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HIGHWAY IMPROVEMENT



FOR CULVERTS AND BRIDGES

Steel and Concrete Combined constitute Form of Construction Economical and Durable.

(By C. H. MOOREFIELD.)
A combination of steel and concrete made in such a manner that each material will be required to withstand the character of stress for which it is best adapted—that is, tension for steel and compression for concrete—constitutes a form of construction for short bridges and culverts both economical and durable. The advantages of the two materials are combined and their disadvantages in a large degree eliminated.

This form of construction, on account of its economy and simplicity, is especially well suited to highway culverts and short span bridges, when for any reason it is desirable that their superstructures be kept flat. In the case of arch culverts and bridges built



Reinforced Concrete Culvert on a Massachusetts State Road.

of concrete the economy of introducing steel is not always evident and should be demonstrated in any particular case before it is decided that the arch must be reinforced.
The conditions to be met in the construction of reinforced concrete culverts make it desirable, from a standpoint of economy, that a relatively high grade of concrete be used. Any decrease in the strength of the concrete necessitates a corresponding increase in some dimension of the members, and thereby adds to the dead load which the structure must sustain.
Reinforcing bars should be made from steel having a safe strength of not less than 16,000 pounds per square inch, and should possess sufficient malleability to be readily bent into the desired shapes while cold. When placed in concrete they should be free from rust, grease or foreign material of any kind, otherwise a perfect bond between the bars and the concrete will not be obtained.

Designers of highway bridges and drainage structures are urged not only to investigate the safety and durability of proposed designs, but to consider their esthetic features as well. When bridges and culverts are to be constructed of permanent materials, such as reinforced concrete, the designer should bear constantly in mind the fact that any esthetic defects which may be present in such structures will become more and more apparent as the community develops. For example, a highway bridge, the defects of which are hardly noticeable when the highway on each side is bordered by dilapidated fences and buildings may become a veritable eyesore



Concrete Arch Bridge in the District of Columbia.

If these features of the landscape are sufficiently improved, a design may be in excellent taste, however, and yet be almost totally devoid of ornamentation. A few simple panels and copings are usually sufficient to lend an attractive appearance to masonry bridges, provided the planes of the wing walls, parapets, etc., are in proper relation to each other and to the roadway.

Earth Roads Cheap.
The earth road will doubtless be used in rural communities for many years, because of its low first cost. The ever-recurring problem of upkeep on such a road can be solved very largely by the use of the split-log drag.

Money Wasted.
It is money wasted to spend it for dragging a road that is not paved enough so there is a ditch on either side of the roadway. Better grade first, then keep the grade up by dragging afterwards.

Guard Against Weevils.
All weeds and rubbish should be cleared away from alfalfa fields, ditches and fence rows so there will be no opportunity for weevils to find winter shelter.

FOR SAVORY LOBSTER CUTLET

Delicacy That Takes Long to Lose Favor Neither Expensive Nor Hard to Prepare.

Lobster cutlets, an old standby, never prove tiresome. There is a piquancy of flavor in this connection which no other has. A tried recipe for cutlets calls for a cupful of thick white sauce, made with two tablespoonfuls of butter, two of flour and a generous three-quarters of a cupful of milk. Add to this a beaten egg, a teaspoonful of lemon juice and two cupfuls of lobster meat, cut or chopped in small pieces. Let this mixture, in a covered dish, stand until it is cold. Then shape it into cutlets half an inch thick, about three inches long and two wide. Dip them in beaten egg and fine crumbs and fry in hot fat for just a moment or so until they are a light, golden brown. Drain them on brown paper, garnish each with a small claw, and serve immediately with Hollandaise sauce, which you can make by adding two tablespoonfuls of chopped anchovies and olives to a scant cupful of good mayonnaise.

A good filling for patties is made of a cupful of cream sauce, made with half cream and half chicken stock, three cupfuls of minced lobster meat, two tablespoonfuls of sherry, pepper, salt and the beaten yolk of an egg. Add the sherry last and heat quickly.

SURE TO BE APPRECIATED

Huntington Fish Cutlets a Pleasant Change From Usual Substantial Meal of Meat.

Cook one-half tablespoonful of finely chopped onion and two tablespoonfuls of red or green pepper, finely chopped, with three tablespoonfuls of butter five minutes, stirring constantly. Add one third cupful of flour and stir until well blended; then pour on gradually, while stirring constantly, one-half cupful each of milk and cream. Bring to the boiling point and add one and three-fourths cupfuls of flaked cold cooked haddock or halibut. Season with three-fourths teaspoonful of salt and one-fourth teaspoonful paprika. Spread on a plate and cool. Shape, dip in crumbs, egg and crumbs, and fry in deep fat. Serve with or without the following sauce: Mix one tablespoonful of tarragon vinegar, two tablespoonfuls of grated horseradish root, one teaspoonful of English mustard, one-half teaspoonful of salt and a few grains of cayenne; then add one-half cupful of whipped cream and three tablespoonfuls of mayonnaise. Dressing—Women's Home Companion.

Spinach Salad.
Spinach salad can be made from the leaves both cooked and uncooked. If the cooked leaves are used they should be finely chopped and then moistened well with French dressing, made from three parts of oil and one of vinegar, and seasoned with salt and pepper. Put the spinach in a little mound on a heart of white, crisp lettuce. Another way to make cooked spinach salad is to put the cooked leaves through a sieve, to make a paste of them. Then form the paste into small balls, about the size of a walnut, and roll these in chopped nuts. Arrange half a dozen of them for each plate on a bed of lettuce leaves.

An uncooked spinach salad is this: Wash and drain a quart of the tender spinach leaves and put them in a salad bowl. Add some tender spring onions, finely cut, and a few mint leaves cut fine. Serve with French dressing.

Turpentine in the House.
Turpentine is a sure preventive against moths. By dropping a trifle in drawers, trunks and cupboards it will render the garments secure from injury during the summer months. It will also keep ants from closets and storerooms if a few drops are put in the corners and upon shelves. It is sure destruction to all sorts of vermin and will drive them away from the various articles of furniture. It does not injure either furniture or clothing. One tablespoonful added to a bucket of warm water is excellent for cleaning painted woodwork.

Delmonico Tomatoes.
Scoop out inside from six small tomatoes. Chop three small green peppers. Add one-half onion finely chopped and cook with one tablespoonful butter for five minutes. Add one tablespoonful flour and half cup boiling water, stirring all carefully to make a smooth sauce. Fill tomatoes with the pepper sauce and place a large cube of boiled sweetbread or chicken in center of each cup. Cover with buttered crumbs and bake fifteen minutes in hot oven. Instead of sweetbread, crab meat or lobster may be substituted.

Easily Made Dustless Mop.
A good dust-retaining mop for hardwood floors may be made by saturating with turpentine oil one of the floor mops sold for cleaning purposes. Allow the mop to soak in the oil for several hours, then partially dry, when it will answer every purpose of a dustless mop. Crude lemon oil diluted with one part of turpentine provides one of the best furniture polishes, and at very little expense you can get a good supply.

Rubber Chair Tips.
Rubber tips for the dining-room chairs will save the hardwood floors from constant scratching. The tips cost little and save both work and the floors. The dining-room chairs are so likely to be pushed back in a way to mar the polish of the floor that these chairs in particular should be protected with tips.

ORCHARD GLEANINGS

USE FOR ALL WASTE FRUIT

Apples and Pears That Drop From Trees and Cannot Be Sold Should Be Made Into Cider.

Apples and pears that drop from the trees and cannot be sold, should be made into cider or dried. A double-cage cider mill of four or six barrels per day, may be had for \$18, and a small mill for family use for ten dollars. A cook stove fruit drier may be had for five dollars. Evaporated peaches, cherries, raspberries, apples, pears and blackberries may be put up for family use or made into salable products. There is a steady demand for evaporated fruit during the winter months. In most every neighborhood a profitable business could be established that would not only prove profitable to the owner, but would give employment to the boys and girls of the vicinity.

In a trip through the fruit belt of an adjoining state, taken recently, I found a number of such establishments. I was told that the business was not only fairly remunerative to the owner, but was a means of bringing in more and better help in the community where they were located. Sweet potatoes, winter squash, pumpkins are now being packed in large quantities and find a ready sale.

In the commercial packing houses the apple parings are made into jelly and the peach stones cracked, the kernels ground and made into various medicines; the stones are ground, and sold for packing purposes. If the fallen fruit can not be put up the pits should be turned into the orchard, and many insects would also be destroyed. One peck of sliced apples, mixed with two quarts of wheat bran, may be fed to the cow twice a day. The apples should not be fed whole as there is danger of choking.

SEEDING MACHINE IS NOVEL

Seeds Planted Either in Squares or Triangles—Of Much Advantage to Florists.

A new method of planting seeds has just been invented which is very interesting on account of the perfectly regular geometrical figures in which it will plant single seeds. Such a machine should be of great advantage to gardeners, and particularly to florists, says the Popular Mechanic. The special machine illustrated is designed to plant the seeds either in squares or in triangles, though it could easily be modified to plant them in circles, hexagons, rectangles, or any other desired forms.



Seeding Machine.

BEAUTY OF THE HYDRANGEAS

Considered Best Late Flowering and Hardy Shrub—Easy of Culture and Attractive.

(By C. M. SCHULTZ.)
It is likely that if a vote were to be taken for the best late flowering hardy shrub the honor would fall to the Hydrangea.

While there are shrubs that I like better, this one seems to suit the masses. It has the merit of extreme hardiness, easy culture, great floriferousness, late blooming and persistency.

Its flowers lose their early whiteness as the season advances, but in their pinky-brown stage they are not without attractiveness.

In planting the Hydrangea, I would never advise using it singly. It is vastly more effective when grouped. By this means we secure for it a strength and dignity which single specimens never have. Planted thickly it produces a grand effect. The enormous heads of the bloom have considerable weight, but they cause the branches to take a graceful curve, and seldom if ever need supporting.

Those who are in search of a plant that will grow in almost any soil and under almost any condition, and is equally beautiful in the south and the north, will find the Hydrangea the very thing they are looking for.

Manure is Money.
There is no discounting the conclusion, and any landowner who doesn't believe it by the way he runs his soil is making a great mistake that will soon stare him in the face. All soil is depleted sooner or later, and that farm comes to the turn soonest to which nothing is given back.

Preserve Cut Flowers.
Cut flowers may be preserved for an unusually long time if a little salt-peter or carbonate of soda is added to the water. Salt also helps to keep them fresh.

PESTS OF SHADE TREE

Proper Protection Is Problem of Much Importance.

Sudden Losses Are Frequently Caused by Overwhelming Attacks of Leaf-Eating Insects—Keep Pests in Subjection.

(By S. A. FORBES.)
The protection of the shade trees and ornamental shrubs of our city parks against insects has been for several years a problem of increasing importance. Many of the most desirable trees and shrubs are liable to show destruction by obscure insect pests little understood. If at all, by those immediately concerned.

Trees which have grown for years becoming more attractive, more valuable and more highly valued year by year, begin to weaken and decay, and



A Trap for the Elm Leaf-Beetle, Made of Siftboard and Smear With Tanglefoot.

The owner does not know why. This is often due to borers or the scale insects or beetles, the presence of which has not been detected or suspected, but which injuries might have been prevented if the facts had been known in time. More sudden losses are caused by overwhelming attacks of leaf-eating insects, which, although conspicuous, are not dealt with because proper measures of procedure are not known.

But, of late years, a great work has been accomplished along this line through proper experiments and observations. Careful examinations are being made of the affected trees and shrubs and the life history of the insects causing the injuries is being studied deeply. This is in order that authorities in control of parks, boulevards and streets, and owners of lawns and other private premises may become posted on the habits and characteristics of the pests, and know how to combat them.

Take, for instance, the elm tree. The spraying of large elms is, of course, a difficult and expensive operation, and the canker-worms, which cause great injury to these trees, are less susceptible to arsenical poisons than many other insects. A cheap and efficient method of protecting the tree is the preparation of adhesive preparations, for trapping the insects which creep up or down the trunks of the trees.

When the elm caterpillars are full grown they leave the tree to pupate in the earth, and the female moth emerging, being wholly without wings, can only reach the tree to lay her eggs by climbing up the trunk. If this is enclosed at the proper time by a sticky band impassable to her or by young worms just emerging from the egg, the tree is virtually secure against canker-worm injury.

The sticky substance may be applied directly to the bark as a deterrent against the attack of borers, or may be used on bands of paper, tin, or strawboard. For the elm leaf-beetle a trough shaped band, the inside of which is smeared with the



Trap for Elm Leaf-Beetle, Made of Tin—Lower Edge Should Be Secured About the Tree and Cracks Filled in to Prevent Larvae Passing Through.

sticky material entrap a great number of the descending larvae. Used in connection with spraying arsenate of lead on the leaves, it affords a very satisfactory means of keeping the elm pests in subjection.

Use for Cull Potatoes.
When potatoes come in, use the small ones that are of the size of marbles for the hens and chicks. Cook them and throw them into the poultry yard, and no preparation will be necessary, as the chicks can easily pick them to pieces. It is economical to use potatoes in this manner, those that are usually unsalable can be converted into eggs and assist in adding to the profit from the farm.

Cowpeas in Corn.
Every farmer should consider the sowing of cowpeas in his corn. The cowpeas, besides enriching the soil with nitrogen, will furnish good winter pasturage, and if the corn is cut for silage the cowpeas will help balance the ration. About the best way to sow the cowpeas is to drill them in between the rows of the corn at the last cultivation of same.

DON'T BE DISCOURAGED

IF YOU ARE TOO SICK TO WORK AND YOUR WIFE IS WEAK AND AILING THERE'S HOPE AND HELP FOR YOU BOTH IN

ELECTRIC BRAND BITTERS

They build up the run-down; they strengthen the weak; they invigorate tired and worn-out people. They're unequalled for dyspepsia and indigestion, constipation and malaria, biliousness and jaundice. They're a blessing to women who suffer from backache, headache, fainting or dizzy spells and a boon to all sufferers from kidney troubles. TRY THEM.

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COULD SCARCELY WALK ABOUT

And For Three Summers Mrs. Vincent Was Unable to Attend to Any of Her Housework.

Please Mr. N. C.—"I suffered for three summers," writes Mrs. Vincent, of this town, "and the third and last time, was my worst."

I had dreadful nervous headaches and prostration, and was scarcely able to walk about. Could not do any of my housework.

I also had dreadful pains in my back and sides and when one of those weak, sinking spells would come on me, I would have to give up and lie down, until it wore off.

I was certainly in a dreadful state of health, when I finally decided to try Cardui, the woman's tonic, and I firmly

believe I would have died if I hadn't taken it.

After I began taking Cardui, I was greatly helped, and all three bottles relieved me entirely. I fattened up, and grew so much stronger in three months, I felt like another person altogether. Cardui is purely vegetable and gentle-acting. Its ingredients have a mild, tonic effect, on the womanly constitution. Cardui makes for increased strength, improves the appetite, tones up the nervous system, and helps to make pale, sallow cheeks, fresh and rosy. Cardui has helped more than a million weak women, during the past 30 years. It will surely do for you, what it has done for them. Try Cardui today.

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